

2420-300301RU/021

FEDERAL INSTITUTE FOR INDUSTRIAL PROPERTY

N 93049136. Abstract

Purpose: the group of inventions relates to the art of designing the printed circuit boards and the constructional units based thereon.

The essence of the invention: a device for microprocessor-based controlling is implemented in the form of a circuit board of a rectangular shape, having a two-side conductive coating and comprising:

a zone accommodating a contact field for connecting the external devices,

a zone having a contact field and a deciphering means microcircuit,

a zone having a contact field and a register microcircuit,

a zone having a contact field and a microcircuit of inverters,

a zone having a contact field and a microcircuit of a counter-frequency divider,

a zone having a contact field and a microcircuit of an input/output port,

a zone having a contact field and a microcircuit of a programmed timer,

a zone having a contact field and a microcircuit of a selection deciphering means,

a zone having a contact field and a microcircuit of a microprocessor,

a zone having a contact field and a microcircuits of ROM and working memory,

a zone having a contact field and a microcircuit of a comparator. The zones for accommodating said microcircuits being defined by straight lines, whose equations are provided in the specification. The contact fields, having transistors, diodes, capacitors, resistors, a quartz resonator and other electronic

components mounted thereon according to the circuit diagram of the device, are disposed in the zone formed by the free areas located between zones 1 to 11. A printed circuit board of a device for microprocessor-based controlling is implemented in the form of a rectangular board having a two-side conductive coating, which board comprises contact fields with rows of contact pads arranged for mounting the above-mentioned device components thereon.